INDEX TO VOLUME XXVII

ADEROGBA, K. On the Bending of Simply-Supported Composite Plates	221
Alker, G. High-Frequency Waves Trapped in a Two-Dimensional Canal	347
ATKINSON, C. Some Asymptotic Results for the Effect of Composition-Dependent Diffusion on the Growth Rates of Precipitate Particles	299
ATKINSON, C. and JONES, C. W. Similarity Solutions in some Non- linear Diffusion Problems and in Boundary-Layer Flow of a Pseudo-plastic Fluid	193
BARRATT, P.J. A Continuum Model for Disclination Lines in Nematic Liquid Crystals	505
BARRATT, P. J., see JENKINS, J. T.	
Barrett, K. E. The Numerical Solution of Singular-Perturbation Boundary-Value Problems	57
Calladine, C. R. and Paskaran, N. A re-Appraisal of Influence Coefficients for the Edges of Thin Elastic Spherical Shells Sub-	
jected to Symmetric Loads	1
Chadwick, P. Aspects of the Dynamics of a Rubberlike Material.	263
CHADWICK, P. and CURRIE, P. K. Stoneley Waves at an Interface Between Elastic Crystals	497
CLARKE, J. F. Behaviour at Acoustic Wave Fronts in a Laminar Diffusion Flame.	161
COOK, A. E., see GIBSON, R. D.	
CURRIE, P. K. Rayleigh Waves on Elastic Crystals	489
CURRIE, P. K., see CHADWICK, P.	
Daniels, P. G. Numerical and Asymptotic Solutions for the Supersonic Flow near the Trailing Edge of a Flat Plete.	175
Davies, M. and Dawson, B. The Iterative Solution of Two-point Linear Differential Eigenvalue Problems—II	17
DAVIS, A. M. J. Short Surface Waves in a Canal; Dependence of	-
Frequency on the Curvatures and Their Derivatives	523
DAWSON, B., see DAVIES, M.	
Drazin, P. G. On a Model of Instability of a Slowly-Varying Flow .	69
ERICKSEN, J. L. Liquid Crystals and Cosserat Surfaces	213
GIBSON, R. D. and COOK, A. E. The Stability of Curved Channel Flow	149
HARPER, J. F. On Spherical Bubbles Rising Steadily in Dilute Surfactant Solutions	87
HAYES, M. and HORGAN, C. O. On the Displacement Boundary-	
Value Problem for Inextensible Elastic Materials	287

Hemp, J. Electromagnetic Radiation Produced by a Relativistic Charge Passing Through a Hole in a Conducting Plate	255
Hewson-Brown, R. C. An Analytic Solution for the Problem of a Confined Aquifer in which a Fresh-Water Canal Runs along the	
Middle of a Mud Flat	143
HORGAN, C. O., see HAYES, M.	
Howe, M. S. A Kinetic Equation for Wave Propagation in Random	20=
Media	237
Jacobs, Claire. Torsional Oscillations of a Circular Cylindrical Can about a State of Rigid Rotation	365
JENKINS, J. T. and BARRATT, P. J. Interfacial Effects in the Static	
Theory of Nematic Liquid Crystals	111
Jiji, Latif M. Singular-Perturbation Solutions of Conduction in	
Irregular Domains	45
Jones, C. W., see Atkinson, C.	
Jones, D. S. Integral Equations for the Exterior Acoustic Problem	129
MOHAMMAD, KHOSH. The Centred Expansion Wave in One-Dimen-	
sional Unsteady Flow of a Gas with Vibrational Relaxation .	387
Morgan, J. D. The Interaction of Sound with a Semi-Infinite Vortex	
Sheet	465
OGDEN, R. W. Growth and Decay of Acceleration Waves in Incom-	
pressible Elastic Solids	451
Olaofe, G. Oluremi. Scattering Cross-Section for Two Spheres .	403
OTA, TERUKAZU. A Separated and Reattached Flow on a Blunt Flat	
Plate in a Tunnel	379
Paskaran, N., see Calladine, C. R.	
SIMPSON, A. Scanning Kron's Determinant	27
SMITH, R. Edge Waves on a Beach of Mild Slope	101
TAYLER, A. B. and VAN DEN DRIESSCHE, P. Small Amplitude Sur-	
face Waves Due to a Moving Source	317
VAN DEN DRIESSCHE, P., see TAYLER, A. B.	
VAN DYKE, MILTON. Analysis and Improvement of Perturbation	
Series	423

